

MKP LIGHTING CAPACITOR TYPE TL 501

Application

MKP capacitor TL 501 . . is particularly designed for series compensation of lightning appliances.

Description

Capacitors with a polypropylene dielectric with a metal armature from Zn/Al alloy, which have auto-regenerating properties. Metallizing of the winding element face ensures quality contact. Capacitor is insulated closed in a metal case with an ecological bio-resin. Types TL501 A and TL501 P. are fitted with discharging resistors, which are permanently connected to their terminals. The resistor value (1,2M Ω) ensures requisite discharge of the capacitor to max. 50 V in 1 min. Capacitors TL 501 . . are capacitors type B. They are fitted with a mechanical disconnecting device, which ensures disconnection of the capacitor at overload.

Electrical properties

Nominal voltage UN/frequency	450V 50Hz
Range of operating temperatures	-40°C/85°C
Tolerance on capacitance	$\pm 10\%$ (K), $\pm 5\%$ (J), $\pm 4\%$
Test voltage between terminals	2 x U _{jm} . 50Hz / 60s
Test voltage between terminals and case	2500V 50Hz / 60s
Dissipation factor at 20°C, measuring frequency 50Hz	6 . 10 ⁻⁴
Dissipation factor at 20°C, measuring frequency 1 kHz	40 . 10 ⁻⁴

Type marking of the capacitor

TL 501 . . – MKP capacitor for series compensation of U_{jm}=450V ~

1st letter indicates type of terminals

A – soldering tags with a discharging resistor.

E – soldering tags without a discharging resistor.

P – adapter with two couples of a contacting cavities, which are an integral part of the adapter together with a discharging resistor.

– another type of terminal is necessary to discuss with producer.

2nd letter indicates case fixing system

B – case without a base stud

S – case with a metal base stud M8 x 10 mm

Information for an order

Example of complete marking: TL 501 PS 5 μ F $\pm 10\%$

Lightning capacitor 5 μ F, with tolerance $\pm 10\%$ in an aluminum case with a base stud, terminals are an adapter with a discharging resistor.



Dimensions

Type	TL501 . . Series compensation
Nominal voltage in range of min. and max. temperature	450 V~50Hz -40°C/+85°C
Nominal capacitance (µF)	Dimensions ØD x L (mm)
2 2,5 3 3,6 3,75	25 x 55
4 4,5 5 6 7	25 x 75
7,5 8 9 10	25 x 95

